jean-françoispambrun

researcher | engineer | software developer

software developer

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languages

bilingual french/english

programming

java, javascript python, numpy matlab, c, c++ linux, xml, git html5, latex tensorflow

standards

dicom, ihe, hl7 jpeg 2000, jpip

interests

medical imaging image compression deep learning rendering

† not a member of the OIQ ‡ fast-track doctoral admission without obtaining a master's degree

education

2011-2016	Ph.D. in electrical engineering improving medical image compression and transmiss	École de technologie supérieure ion
2009-2010	M.Sc. in electrical engineering (incomplete [‡]) evaluation of the diagnostic quality of lossy compres	École de technologie supérieure sed medical images
2005-2009	B.ing. in electrical engineering information technologies and telecommunication	École de technologie supérieure

experience

2017-

2017	cloud-based diagnostic workstation with client-side N	MPR
2016 (06-12)	postdoctoral fellow MR-TRUS fusion and segmentation using deep neural	CHUM research centre I networks
2016 (09-12)	lecturer procedural programming (inf1005a)	École Polytechnique de Montréal
2009-2014	lecturer software development environment (ele116) image processing and analysis (ele747)	École de technologie supérieure
2007-2014	teaching assistants healthcare distributed systems (gts840) software development environment (ele116) image processing and analysis (ele747)	École de technologie supérieure

awards

2017	NSERC post-doctoral scholarship	90,000\$
2017	FRQNT post-doctoral scholarship	70,000\$
2016	GRSTB postdoctoral fellowship	18,000\$
2011	NSERC doctoral Alexander-Graham-Bell scholarship	105,000\$
2011	ÉTS excellence graduate student scholarship	60,000\$
2011	FRQNT doctoral research scholarship	60,000\$
2009	FRQNT master's research scholarship	30,000\$
2006	NSERC undergraduate student research awards	4,500\$

committee and board memberships

2013-2016 board member of an NPO

vice-president of services

academic commission student representative disciplinary committee student representative

Association étudiante de l'ÉTS

publication

articles in peer-reviewed journals

The utilization of MRI in the operating room

Ménard C, Pambrun J-F, Kadoury S

Brachytherapy. Elsevier, 2017

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F., Noumeir R.

Journal of Digital Imaging. Springer Science, 2015

Teaching DICOM by Problem Solving.

Noumeir R., Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F., Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R., Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2010

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging

Pambrun J.F., Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

Pambrun J.F., Noumeir R.

IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F., Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F., Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R., Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R., Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R., Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R., Pambrun J.F.

IEEE International Conference on Image Processing. 2009